

Appendix II. WSDOT Fishways Requiring Further Work to Satisfy Fish Passage Requirements

Road	Mile Post	Stream	Tributary To	WRIA	Pass (%)	Last Inspection Date	Fishway Type	Inspection Frequency	Condition	Recommended Maintenance/ Repair	Funding	Project Status
WSDOT Northwest Region												
I-5	256.28	Baker Cr	Squalicum Cr	01.0553	33	01/12/2003	BC;SBC	Not inspected		Many of the original baffles are gone; high velocities in the culvert, which is rusting out.	D	S
I-5	244.20	Barnes Cr	Samish Lk	03.0036	33	01/13/2004	SBC	Not inspected		Some of the log controls exceed outfall drop criteria, and the culvert is only partially backwatered.		U
SR 410	48.31	Boundary Cr	White R	10.0250	33	12/29/2003	SBC	Not inspected		The culvert is only backwatered for 16 meters; sheeting flows in upper end of the culvert. Upper two culvert sections slightly elevated, creating grade break.	TP	U
SR 92	1.93	Catherine's Cr	Stevens Cr	7.0148	67	05/28/2003	BC	Annual	MNR	The outfall drop (1.4 ft.) exceeds WDFW criteria. Downstream controls are needed to reduce drop, or the culvert need to be replaced.	D	S
I-5	246.75	Chuckanut Cr	Puget Sound	01.0626	33	06/08/2003	BC;SBC	Not inspected		More than half of the baffles are damaged or are gone. The last ~40 m lacks baffles and is undermined.	TP	S
SR 18	25.80	Deep Cr	Raging R	07.0396	33	04/22/1997	BC;SBC	Not inspected	MNR	Deteriorated culvert baffles and outfall drop block coho and juveniles. Rebuilding is needed. Engineering required.	D	S
SR 509	20.35	Des Moines Cr	Puget Sound	09.0377	33	12/17/2003	BC	Not inspected		Culvert is backwatered by a baffle for only half of its length, creating sheet flow and high velocity in the upper end. This is an ineffective fishway. Recommend bridge.	OTH	S
I-90	18.83	EF Issaquah Cr	Issaquah Cr	08.0183	33	05/13/1994	SBC	Not inspected	MNR	The middle sacrete control is deteriorating and about to blow out. It needs to be repaired or replaced.		U
SR 18	22.16	Holder Cr	Sammamish Lk	08.0178	0	12/30/2003	BC	Not inspected		Excessive outfall drop (1.04m), velocity and sheet flow problems on the downstream apron. In addition, bedrock and large boulders block the entrance pool below the apron.		U
SR 528	2.47	Munson Cr	Allen Cr	07.0073	67	01/16/2004	SBC	Not inspected		The outfall drops at three of the downstream controls and the upstream controls exceed WDFW fish passage criteria.		U

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I-405	26.46	Perry Cr	North Cr	08.0070 A	67	05/09/2003	BC	Annual	MNR	Replace missing baffle inside culvert, and eliminate sheet flow at culvert outlet by installing downstream controls or additional baffle.	TP	S
SR 18	8.90	Soosette Cr	Soos Cr	09.0073	67	12/17/2003	SBC	Not inspected		A drop at the bottom log control and third control from the top exceed WDFW fish passage criteria.		U
I-405	29.75	Swamp Cr	Sammamish R	08.0059	67	05/09/2003	SBC	Triennial	MNR	Replace blown out downstream sackrete control or addition of baffle system to culvert to eliminate sheetflow.	D	S
SR 522	2.86	Thornton Cr	Lk Washington	8.0030	67		BC;PC	Not inspected		There is a bracket in place for plank controls, but no planks in place. No DS controls visible.		U
SR 531	8.71	Unnamed	MF Quilceda Cr	07.0060	67	01/15/2004	SBC	Not inspected		Excessive drop and improper spacing at two of the log controls. Coho carcasses seen DS.		U
SR 520	4.48	Unnamed	Lk Washington	08.0257	33	12/30/2003	SBC	Not inspected		The control does not backwater far enough to provide fish passage all the way through.		U
SR 530	31.01	Unnamed	NF Stillaguamish R	05	67	01/16/2004	SBC	Not inspected		The outfall drop (0.33m) below this log control exceeds WDFW criteria. Problem could be corrected without culvert replacement.		U
US 2	23.08	Wagley's Cr	Skykomish R	07.0939	33	08/19/2003	WP	Not inspected	MNR	The fishway is non-functional and prone to debris plugging. Most of the wooden components have deteriorated. The fishway needs to be replaced.	OM	S
WSDOT North Central Region												
SR 28	22.27	Baird Springs	Columbia R	40	0	01/23/2004	BC	Not inspected		Most of the baffles deteriorated or completely gone (including the apron baffle); the outfall drop at the downstream apron is 1.5m, with large rip-rap in a very shallow plunge pool.		U
SR 20	181.34	Little Boulder Cr	Methow R	48.1400	0	07/25/2000	BC	Not inspected		A log jam on the 7th baffle; pools upstream of baffle filled with gravel. There is a 1.2 m outfall drop at the culvert.	D	S

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WSDOT Olympic Region												
SR 308	1.15	Big Scandia Cr	Liberty Bay	15.0280	67	04/16/2003	BC;SBC	Annual	OK	Re-attached baffles have not been sealed close to the bottom. As a result, baffles do not backwater during low flows. Recommended installing different type of baffles.		U
SR 3	40.50	Chico Cr	Dyes Inlet	15.0229	67	10/14/2003	BC	Annual	MNR	Place baffles in upper portion of left barrel of culvert to eliminate sheet flow at low flow. Baffle guides were originally provided.		U
US 101	250.00	Ennis Cr	Strait of Juan de Fuca	18.0234	33	06/26/2003	BC;WP	Annual	OK	Weir replacement and adjustment of stop logs done, however, due to constant debris recruitment and poor attraction flow characteristics. The fishway needs to be redesigned and upgraded.	D	S
SR 112	48.49	Field Cr	Strait of Juan de Fuca	19.0026	67	12/09/2003	SBC	Not inspected		The drop at the single downstream log control has increased to 0.34 meters. An upstream log control with excessive drop was removed in 2001.		U
US 101	189.40	Grader Cr	Bogachiel R	20.0237	67	03/28/2003	BC;PC	Annual	MNR	Dislodged and bent baffles need to be replaced. Due to downgrading below the fishway, the outfall drop is 0.46 m. Engineering will be required to correct the problem.		U
US 101	238.35	Indian Creek	Elwah R	18.0283	67	06/26/2003	BC	Annual	OK	The first weir DS has a drop of over 0.4 m.		U
SR 112	32.00	Jim Cr	Strait of Juan de Fuca	19.0110	67	06/26/2003	BC;SBC	Annual	OK	This culvert is to be replaced by 2004. As a temporary measure, culvert floor has been re-poured, 13 concrete weirs have been added inside, and three rock controls downstream.	D	S

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US 101	250.50	Lees Cr	Strait of Juan de Fuca	18.0232	0	01/27/2004	BC;PC	Not inspected		Excessive slope at the extensions (upstream and downstream ends) of the culvert. These problems are scheduled to be addressed in the future.	D	S
US 101	260.95	Matriotti Cr	Dungeness R	18.0021	67	06/26/2003	SBC	Annual	MNR	At least two of the log controls remain unsealed. Repair all leaking log controls.		U
Purdy-Crescent Rd/ SR 302	16.09	Purdy Cr	Henderson Bay	15.0060	67	10/10/2003	BC;SBC	Annual	MNR	Provide backwatering to culvert with either downstream controls or baffling and plunge pool at outlet or a combination of both.		U
SR 109	36.40	Unnamed	Pacific Ocean	21.0715	67	09/30/2003	WP	Annual	MNR	The rock control downstream of the weir-pool structure needs to be replaced with larger rip-rap, keyed into the banks at the ends. Culvert needs to be replaced.	D	S
SR 16	20.36	Unnamed	Burley Cr	15.0058	33	12/12/2003	BC	Not inspected		At least one stub baffle at the upper end has become detached. Small culvert size creates maintenance problems. A metal wingwall apron addition at the upstream end is a barrier to juveniles.		U
US 101	111.90	Unnamed	Stevens Cr	22	33	08/20/2002	BC	Not inspected		Two non-permanent baffles present. Not a functional fishway		U
SR 16	20.44	Unnamed	Burley Cr	15	33	12/12/2003	BC	Not inspected		Small culvert size precludes proper fishway functioning. In addition, an upstream metal apron wingwall attachment creates a sheetflow. Two chum carcasses noted downstream.		U
SR 112	49.50	Whiskey Cr	Strait Of Juan De Fuca	19.0020	33	01/27/2004	BC	Not inspected		A wooden plank "apron" at the culvert outlet causes sheet flow for 8 or 10 feet below the culvert's interior. There is also a 2 ft. outfall drop at the end of the wooden apron.		U
WSDOT Southwest Region												
SR 142	20.20	Bowman Cr	L Klickitat R	30.0068	33	06/06/2001	BC;SBC	Not inspected	MNR	The concrete baffles have eroded and do not function effectively. The drop at the DS end exceeds 0.3 m. The entire crossing needs to be redesigned and replaced.	D	S

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Nevala Rd (SR 503 ROW)		Ross Cr	NF Lewis R	27.0305	33	04/25/2001	BC	Not inspected	MNR	Recommending new culvert or a new retrofit. Almost all the baffles are gone and outfall drop over the attached steel plate is over two feet high.		U
SR 503	33.28	Unnamed	Brooks Cr	27.0432	33	12/15/2003	BC	Not inspected		A 0.65 m outfall drop from the end of the downstream apron is a barrier to fish passage at most flows.		U
WSDOT South Central Region												
US 97	37.14	Highbridge Springs	Satus Cr	37	0	01/21/2004	BC;SBC	Not inspected		Excessive drops and low pool volume.		U
WSDOT Eastern Region												
US 2	304.40	Deer Cr	Little Spokane R	55.0380	33	01/22/2004	BC;SBC	Not inspected		Outfall drop from the concrete apron baffle is 0.7m; the interior baffles are not attached and have moved out of position.		U
SR 20	389.50	Renshaw Cr	Pend Oreille R	62.0310	0	01/22/2004	SBC	Not inspected		The DS rock control has a drop of 0.42 m and only backwaters 1/3 of the steep culvert. The US plank control is too high (0.36m) and placed against the culvert end, so there is no plunge pool.		U

Fishway Type:

BC - baffled culvert
SBC - streambed control
WP - weir pool

Condition:

MNR - requires repair
MNFP - requires maintenance

Project Status:

S - fish passage project scheduled
U - fish passage project unscheduled

Funding Type:

TP - safety and mobility or other road improvement projects
D - projects within the WSDOT Environmental Retrofit Program
OTH - other sources of funding supplementing or supplemented by WSDOT, such as counties, cities or tribal entities.
OM - projects completed during routine maintenance.